

Professor Wrigley grew a culture of bacilli on jellied beef tea. These he killed by subjecting them to prolonged heat. After that he injected the dead bacilli in varying quantities into guinea pigs of a uniform weight of about a half-pound each. He ascertained that it required from 500 millions to 1,000 millions of dead bacilli to kill three guinea pigs, and another 500 millions to kill one. He decided that this number would be about the right protective dose for a human being of average weight; and he vaccinated about twenty persons at a military hospital in London. The results on these patients showed that the experiment was at least a safe one. The general conclusion was, therefore, that the prolonged, seriously discomfiting, no harmful

During the Boer War nearly 20,000 British soldiers in South Africa were inoculated with Wright's vaccine. Among these men, only one out of eighty-four died of typhoid, and only 17 per cent. died, while one out of forty of those who had not been treated had typhoid and 25 per cent. of these died.

Major Russell was sent by our government to study the methods and results in England and Germany. His report was discussed by a military scientific board, and they recommended the mass-inoculation of our soldiers. This, then, was the beginning of our vaccination.

A black and white portrait photograph of a man with a mustache, wearing a dark suit, white shirt, and dark tie. He is looking slightly to the right of the camera. The photograph is mounted on a light-colored card.

A stringed instrument indigenous to Hawaii is the ukulele, a diminutive guitar, often conformed with the "taro patch fiddle," giving out strains of music associated only with the moon-light nights, luau and hula of the tropics. One is inseparable from the other, for a luau without the strains of this popular instrument would be as void of pleasure as if served without poi.

And a winning feature of this instrument is the fact that any one can learn to play it, and it can be used for American music. Its inventor is M. Nance, whose portrait is shown above, and he has been making ukuleles for the trade almost continuously since he invented it in 1879. They were in the palace of the king and queen and homes of chiefs. That it has been a success, this invention, is proven by the display in every music store and china shop in the country.

The inventor now feels that he will derive more profit from his labor by establishing himself in a store in town where he can display his wares. He has sons who have inherited from their father the ability to judge sound and the talent for music he possesses. Beginning January 1st he will associate his sons with him in business in one of the stores in the Kapiolani building on Ahien street where a stock of superior instruments of the string variety will be on sale. It will include the celebrated "Nunes Ukulele," best of all instruments under this name, as well as two patch fiddles and guitars. The ukuleles will be made under the direct supervision of the inventor and customers may feel confident of getting the best that is built.

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